

## ABSTRACT OF THE DISCLOSURE

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To reduce the complexity of the correlation in a correlation based tracking of a code modulated signal received at a receiver, received samples and available replica samples are aligned to each other and the  
10 positions of the samples in the received signal and in the replica code sequences are grouped, each group comprising all positions at which the composition of the values of the samples of all of the replica code sequences is similar. The values of the received samples  
15 which are associated to a respective group are combined separately for each group to obtain a respective intermediate result. Then, a correlation value is determined for each replica code sequence by combining the intermediate results obtained for all groups  
20 separately for each replica code sequence, taking into account the values of the samples of the replica sequences in the respective group.